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8 September 1970

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MEMORANDUM FOR: Chief, Technical Services Group, NPIC

ATTENTION : Chief, PPS/TSG

SUBJECT : RED Monthly Report on Significant Events  
(August 1970)

A. Significant Items of Interest for August 1970:

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1. Automatic Stereo Scanner [ ] The Stereo Scanner equipment was shipped [ ] and is now being reassembled. An [ ] engineer and two technicians are [ ] to aid in the reassembly. [ ] is monitoring this task on-site. The concurrent [ ] project, "Utility of Stereo Scanning," is proceeding as scheduled.

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2. Automatic Target Indexing Device [ ] The system is in final assembly and the project is on schedule. Preacceptance inspection will occur in mid-September.

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3. Wide-Field, High-Power Anamorphic Stereoviewer [ ] Project is on schedule. The current phase is one of finalizing optical design and procurement of lens elements.

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5. Image Comparison Microstereoscope [ ] This project is still in a stop-work status pending resolution of a request for overrun funds. An attempt is being made to renegotiate this contract to a cost-ceiling or a cost-sharing arrangement for completion of the prototype.

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6. Viewing Systems Study [ ] The draft of the first chapters of this optical engineering handbook have been completed and are being evaluated.

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7. Color Fading [ ] reported that his firm can probably supply all of the information which we requested in the color fading characteristics [ ] however, he could not provide a completion date at this time.

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GROUP 1  
Excluded from automatic  
downgrading and  
declassification

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8. Determination of Color Training Needs

The initial contract monitoring visit was made on 13 August. Work is progressing satisfactorily on Task I (Literature Review) and Task II (Color Vocabulary) personnel have received word from [ ] [ ] noted expert in color perception [ ] that he will donate his time and talent to the program to insure application of basic research findings [ ] management complimented the government on the comprehensiveness of the color program.

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9. Imagery Interpretation Research Program

The FY-71 PAR was signed off by the Director, NPIC, and forwarded to Headquarters for final approval. The FY-69/70 program expired on 21 August. Extensive briefings for Center personnel are tentatively scheduled for the latter part of September [ ] developed training packages on such targets as scatter communications facilities, guided missile patrol boats, missile launch sites and complexes, and nuclear production facilities were received for evaluation by IEG.

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10. Visual Perception Consultation

[ ] A continuation of the consultation services rendered [ ] was approved for FY-71. He will conduct further research on instrument myopia, and laser optometry development, and will support the validation of [ ] color acuity test development.

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12. Image Manipulation Research Facility

The input scanner and the video display output are in the final testing stage [ ]. The equipment is scheduled for delivery in mid-September and will be installed in Room 4N407. Used in conjunction (off-line) with the OCS computer, this equipment will provide the capability for in-house manipulation of classified imagery by December 1970.

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13. Photographic Image Manipulation

[ ] The contract was completed and the enhancement device is in transit. Initial results indicate an improved result for certain types of imagery. In-house experiments will commence in September under the direction of [ ]

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14. Improved Rear Projection Screen [redacted]. Representatives [redacted] visited [redacted] on 18 August to discuss a retrofit of the [redacted] screen to the Scan & Search P.I. Station being fabricated [redacted]

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15. [redacted] Light Tables [redacted] Production contract is on schedule with no problems foreseen.

16. Dry Silver Processor [redacted] SDB/RED, and [redacted] ESD, visited [redacted] on 5-7 August to "check out" two Dry Silver Processors prior to delivery to the Center. The equipment performed very well and delivery is expected in late August or early September.

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17. [redacted] Stereocomparator [redacted] Optics have been installed in the HPSC system and indications are that resolving power exceeds specifications. Critical item now is the "check out" of the computer programming which is expected to continue through October.

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18. Contractual Action: Approval of an additional [redacted] for the Scan & Search P.I. Station was granted by the Director's office on 21 August.

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19. Throughout the period, IEG personnel were briefed on the [redacted] camera systems in order to update personnel orientation and to provide operational information relative to the exploitation of materials from these systems [redacted]

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22. Suggested changes to the SPECS Manual [redacted] were received from the collection/exploitation systems community and will be published, together with a new chapter on SLR SPECS, in October.

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24. The source of difficulty with obtaining obligated amounts on DDS&T contract information reports has been located; agreement as to input designations that will correct the problem has been secured.

25. Initial copies of the FY-71 R&D Project Descriptions were completed and distributed to C/RED and ExDir/NPIC.

26. Briefings and Consultations:

- a. On 17 August, RED hosted the EXRAND Technical Task Team meeting comprised of representatives from throughout the exploitation community for the purpose of initiating compilation of the 3rd Annual Consolidated R&D Project List.
- b. An RED/IEG coordination and planning session involving C/RED and C/OD/IEG was held on 25 August.
- c. On 28 August, SA/P&A directed the presentation of FY-71 R&D Program briefing to selected [ ] personnel [ ]  
[ ]
- d. On 21 August, HFS/ATB personnel met with [ ] Chief, Psychological Services Staff, OMS, to discuss NPIC's human factors program.
- e. On 20 August, HFS/ATB personnel met with [ ] Chief, Medical and Behavioral Sciences, ORD, for a review of ORD's human factors research.
- f. On 24 August, [ ] ATB personnel met with [ ] Life Sciences Division, OSI, to discuss the Center's vision testing program.
- g. Chip Implementation Study [ ] Contractor gave a detailed presentation to the Chip Task Team members concerning the Phase I Technical Report on 6-7 August.
- h. Dry Silver [ ] Contractor and RED personnel gave the Dry Silver Briefing to CCB members and Westover AFB personnel on 11 August. The same briefing was given to EXRAND [ ]  
[ ] on 19 August.

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Briefings and Consultations: (cont.)

- i. In meetings at Wright Patterson Air Force Base, RSB/RED personnel assisted in preparing an RFP to replace the current primary camera on the low-altitude drone, F147-S.
- j. A meeting was held with DIA to discuss NPIC participation in [ ] distortion tests. The system may become a source for NPIC inputs on an operational level. Arrangements are being made for briefings of NPIC personnel in the future.
- k. The VHR Working Group is progressing toward an interesting and objective evaluation of the values, needs, and practicalities of VHR systems. The approach is primarily intelligence-user oriented.

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27. Training:

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28. Personnel:

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B. Anticipated Items of Interest for September 1970:

None.

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Deputy Chief  
Research & Engineering Division,  
TSG/NPIC

Distribution:

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2 - TSG/RED

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